

Public Notice of Application for Permit

Regulatory Branch (1145b)
Post Office Box 6898
Elmendorf AFB, Alaska 99506-6898

PUBLIC NOTICE DATE: 29 December 2003

EXPIRATION DATE: 29 Jan

29 January 2004

REFERENCE NUMBER:

1-1988-0668

WATERWAY NUMBER:

Kasitsma Bay 6

Interested parties are hereby notified that an application has been received for a Department of the Army permit for certain work in waters of the United States as described below and shown on the attached plan.

<u>APPLICANT</u>: National Oceanic and Atmospheric Administration (NOAA: You may contact their agents for this project Jennifer Wilson at PN&D Incorporated 1506 West 36th Avenue, Anchorage, Alaska 99503-1506. Telephone 1-(907) 561-1011.

LOCATION: Section 19, T. 8 S., R. 13 W., Seward Meridian, near Seldovia, Alaska. Longitude: 59-28-06 Latitude: 59-28-06

 ${\color{red} \underline{\text{WORK}}}\colon$ Retain the unpermitted existing docks, walkways and buildings, and construct a new Trestile pier, with pump house, and floating dock, install 2 seawater intakes, with pipeline and anchors

PURPOSE: to provide updated research facility

ADDITIONAL INFORMATION: The total jurisdictional area of the new construction on the site is approximately 10,917 square feet, or .25 acres. The new construction is shown in sheets 1-12 of the enclosed plans. The jurisdictional construction includes but is not limited to the trestile pier, pump house, and floating dock, the seawater intakes, pipline and anchors, the boardwalk, the new portions of the dry lab, and the existing VIP cabin.

MITIGATION: No mitigation has been agreed on at this point.

COASTAL ZONE MANAGEMENT ACT CERTIFICATION: Section 307(c)(3) of the Coastal Zone, Management Act of 1972, as amended by 16 U.S.C. 1456(c)(3), requires the applicant to certify that the described activity affecting land or water uses in the Coastal Zone complies with the Alaska Coastal Management Program. A permit will not be issued until the Office of Project Management and Permitting, Department of Natural Resources has concurred with the applicant's certification.

<u>PUBLIC HEARING</u>: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing.

CULTURAL RESOURCES: The latest published version of the Alaska Heritage Resources Survey (AHRS) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There are no listed or eligible properties in the vicinity of the worksite. Consultation of the AHRS constitutes the extent of cultural resource investigations by the District Engineer at this time, and he is otherwise unaware of the presence of such resources. This application is being coordinated with the State Historic Preservation Office (SHPO). Any comments SHPO may have concerning presently unknown archeological or historic data that may be lost or destroyed by work under the requested permit will be considered in our final assessment of the described work.

TRIBAL CONSULTATION: The Alaska District fully supports tribal self-governance and government-to-government relations between the Federal government and Federally recognized Tribes. This notice invites participation by agencies, Tribes, and members of the public in the Federal decision-making process. In addition, Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This Public Notice serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Engineer during the public comment period.

ENDANGERED SPECIES: No threatened or endangered species are known to use the project area.

Preliminarily, the described activity will not affect threatened or endangered species, or their critical habitat designated as endangered or threatened, under the Endangered Species Act of 1973 (87 Stat. 844). This application is being coordinated with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. Any comments they may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

ESSENTIAL FISH HABITAT: The proposed work is being evaluated for possible effects to Essential Fish Habitat (EFH) pursuant to the Magnuson Stevens Fishery Conservation and Management Act of 1996 (MSFCMA), 16 U.S.C. et seq and associated federal regulations found at 50 CFR 600 Subpart K. The Alaska District includes areas of EFH as Fishery Management Plans. We have reviewed the January 20, 1999, North Pacific Fishery Management Council's Environmental Assessment to locate EFH area as identified by the National Marine Fisheries Service (NMFS).

We have determined that the described activity within the proposed area will not adversely affect EFH, including anadromous fish and federally managed fishery resources.

SPECIAL AREA DESIGNATION: None.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impacts including cumulative impacts of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the

proposal, must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Comments on the described work, with the reference number, should reach this office no later than the expiration date of this Public Notice to become part of the record and be considered in the decision. Please contact Mr. Skip Joy at (907) 753-2712 toll free from within Alaska at (800) 478-2712, or by email at irvin.t.joy@poa02.usace.army.mil if further information is desired concerning this notice

AUTHORITY: This permit will be issued or denied under the following authorities:

- (X) Perform work in or affecting navigable waters of the United States Section 10 Rivers and Harbors Act 1899 (33 U.S.C. 403).
- (X) Discharge dredged or fill material into waters of the United States Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).
- () Transport dredged material for the purpose of dumping it into ocean waters Section 103 Marine Protection, Research, and Sanctuaries Act of 1972 (33 U.S.C. 1413). Therefore, our public interest review will consider the criteria established under authority of Section 102(a) of the Marine Protection, Research and Sanctuaries Act of 1972, as amended (40 CFR Parts 220 to 229), as appropriate.

A plan, Notice of Application for Certification of Consistency with the Alaska Coastal Management Program, and Notice of Application for State Water Quality Certification are attached to this Public Notice.

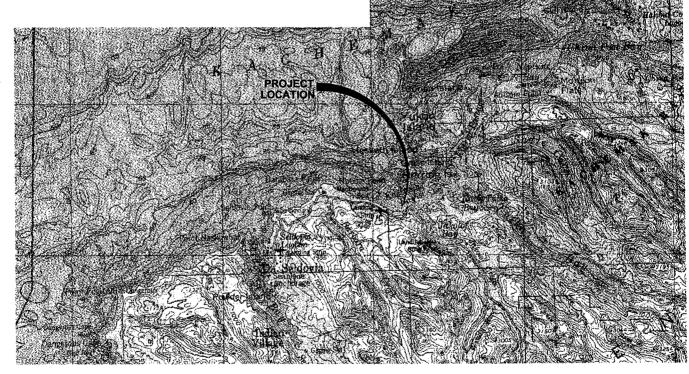
District Engineer U.S. Army, Corps of Engineers

Attachments





STATE OF ALASKA



1-1988-0668, Kasitsma Bay 6

PURPOSE: REDEVELOPMENT OF EXISTING MARINE RESEARCH

FACILITY

DATUM: 0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

LOCATION AND VICINITY MAP

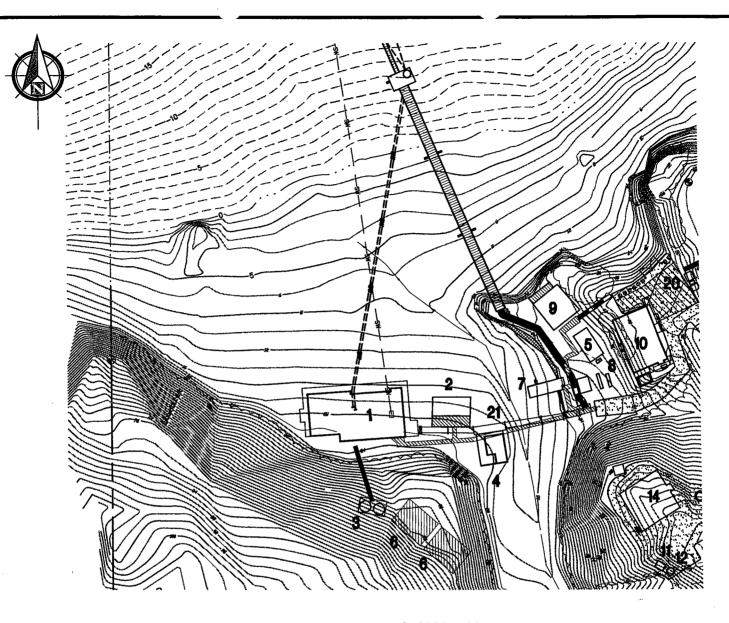
NTS

NOS-NOAA 601 E 12th, FEDERAL BUILDING RM 1749 KANSAS CITY, MO 64106-2877

NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 1 of 6 **DATE**: OCT. 2003



LEGEND

- 1 WET / DRY LAB COMPLEX
- 2 MAIN DRY LAB (existing)
- 3 SEAWATER STORAGE TANKS
- 4 SCUBA SUPPORT FACILITY
- 5 WORKSHOP, EQUIPMENT STORAGE
- 6 CABIN
- 7 VIP CABIN (existing)

1-1988-0668, Kasitsma Bay 6

- 8 PICNIC PAVILLION / RECREATION
- 9 CLASSROOM / OFFICE BUILDING
- 10 DORMITORY
- 11 PUMP HOUSE
- 12 WATER STORAGE TANK
- 14 BUNKHOUSE
- 20 DUMPSTER LOCATION
- 21 NEW BOARDWALK

MHW=17.5 FT

25 50 100 150 FT.

PURPOSE: REDEVELOPMENT OF EXISTING MARINE RESEARCH FACILITY

DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

PROPOSED SITE PLAN WEST HALF

SCALE AS SHOWN

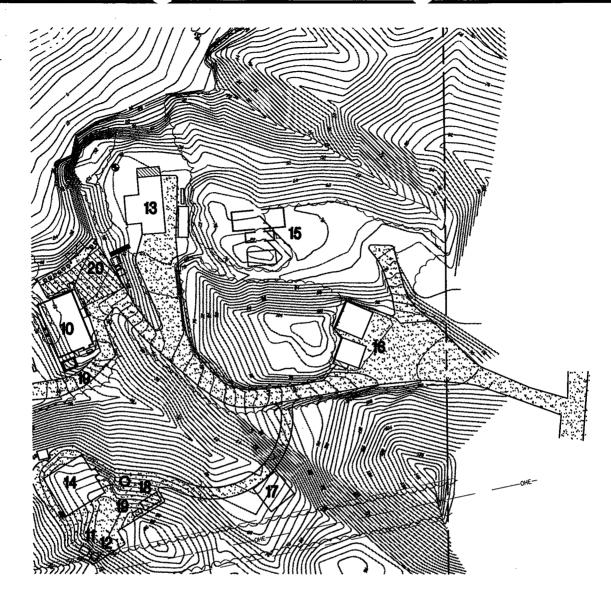
NOS-NOAA 601 E 12th, FEDERAL BUILDING RM 1749 KANSAS CITY, MO 64106-2877

NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 2 of 6 DATE: OCT. 2003





LEGEND

- 10 DORMITORY
- 11 PUMP HOUSE
- 12 WATER STORAGE TANK
- 13 CARETAKER'S MAIN HOUSE (existing)
- 14 BUNKHOUSE (existing)
- 15 WASTE TREATMENT

- 16 BOAT STORAGE / MAINTENANCE FACILITY (existing)
- 17 BOAT STORAGE
- 18 GENERATOR ENCLOSURE
- 19 FUEL TANK
- 20 DUMPSTER LOCATION

GRAVEL ROAD

1-1988-0668, Kasitsna Bay 6

5 50 100 150 FT.

PURPOSE: REDEVELOPMENT OF EXISTING MARINE RESEARCH

FACILITY

DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

PROPOSED SITE PLAN EAST HALF

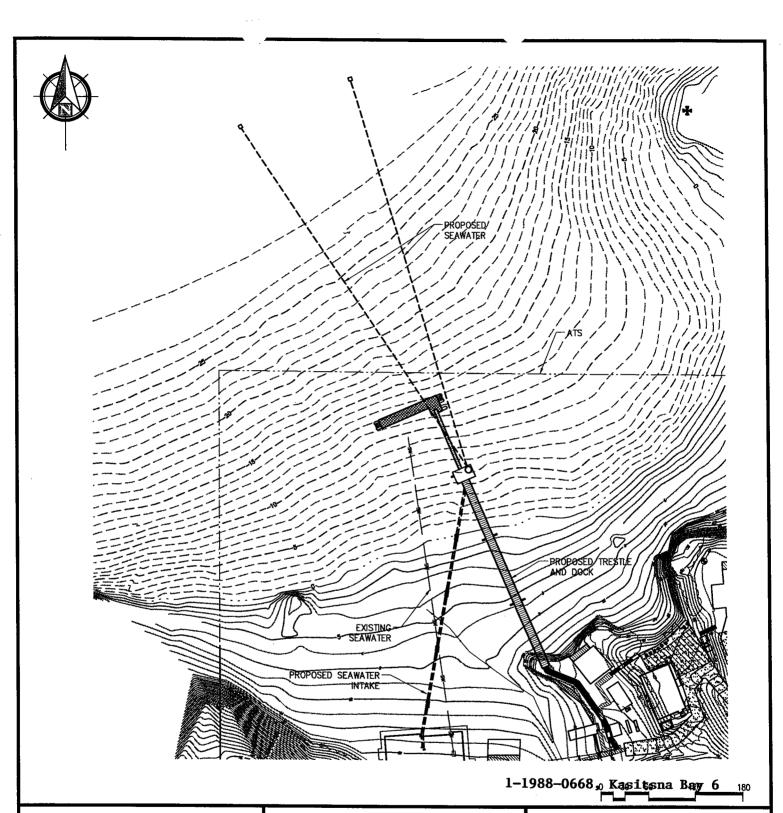
SCALE AS SHOWN

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NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

IN: KASITSNA BAY
AT: SELDOVIA, ALASKA
SEC 19, T85, R13W, S.M.

SHEET 3 of 6 **DATE**: OCT. 2003



DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

PROPOSED SEAWATER INTAKE (NORTH)

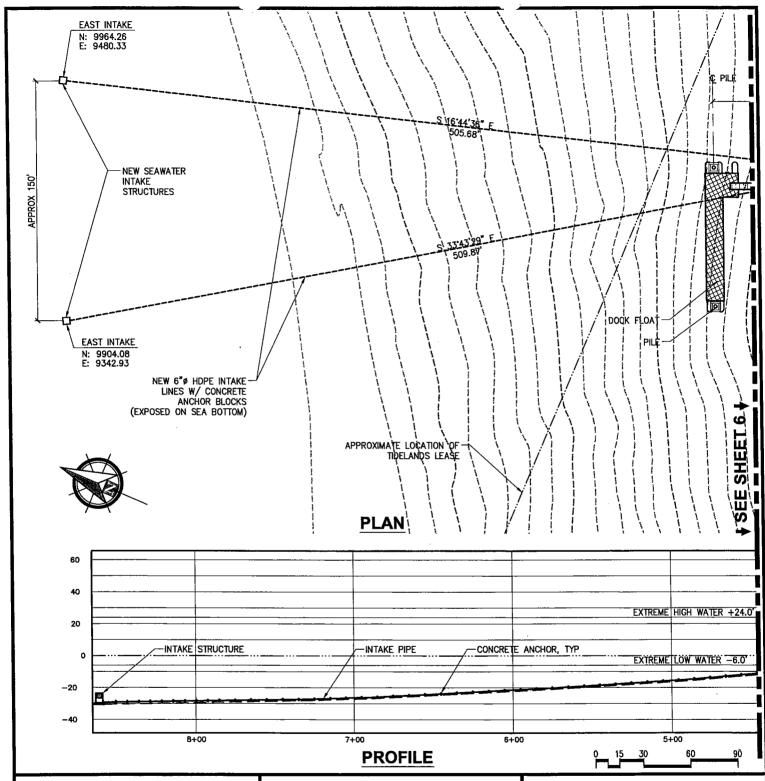
SCALE AS SHOWN

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NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 4 of 6 **DATE**: OCT. 2003



FACILITY

DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

1) SELDOVIA NATIVE ASSOC

2) PATRICK DAIGLE

PROPOSED SEAWATER INTAKE PLAN & PROFILE

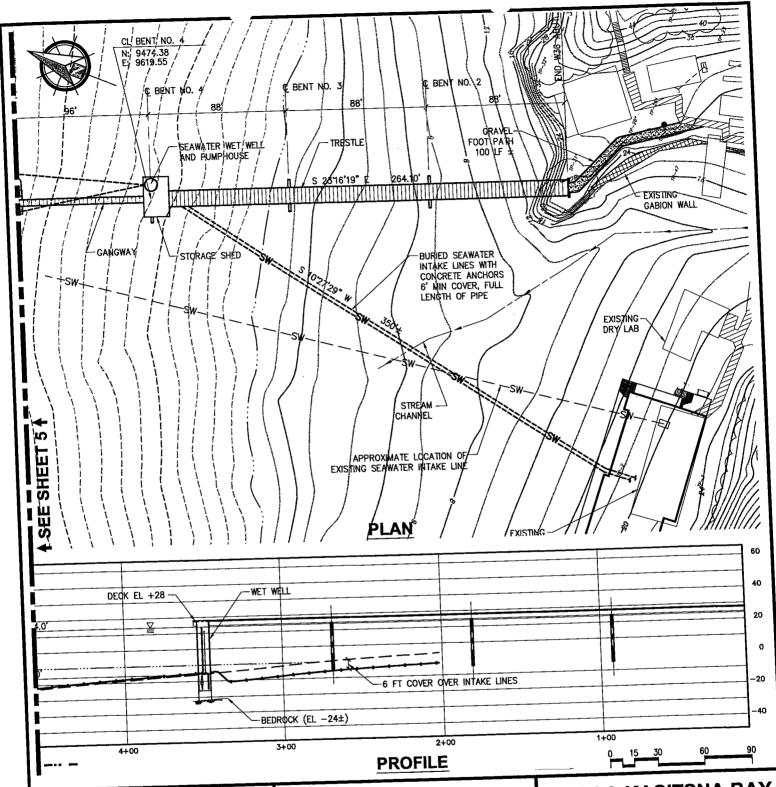
SCALE AS SHOWN

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NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

1-1988-0668, Kasitsna Bay 6 IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 5 of 6 **DATE**: OCT. 2003



FACILITY

DATUM: 0.0' M.L.L.W.
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PROPOSED SEAWATER INTAKE PLAN & PROFILE

SCALE AS SHOWN

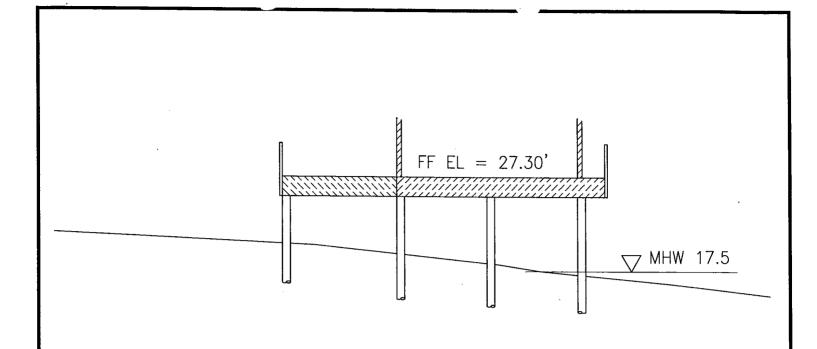
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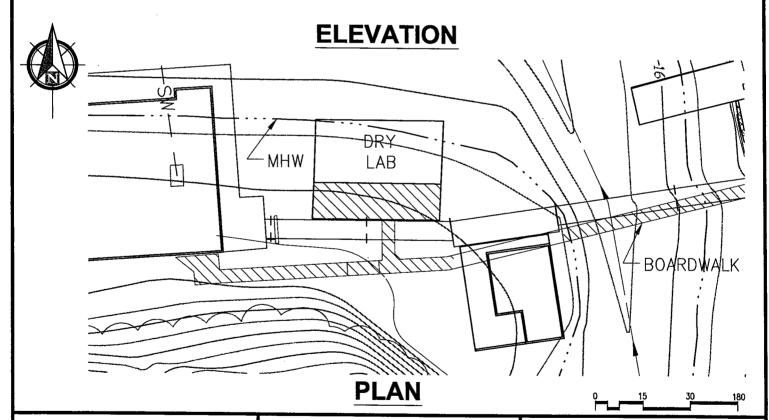
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1=1988-0668, Kasitsna Bay 6

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 6 of 6 **DATE**: OCT. 2003





DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

EXISTING DRY LAB PLAN & ELEVATION

SCALE AS SHOWN

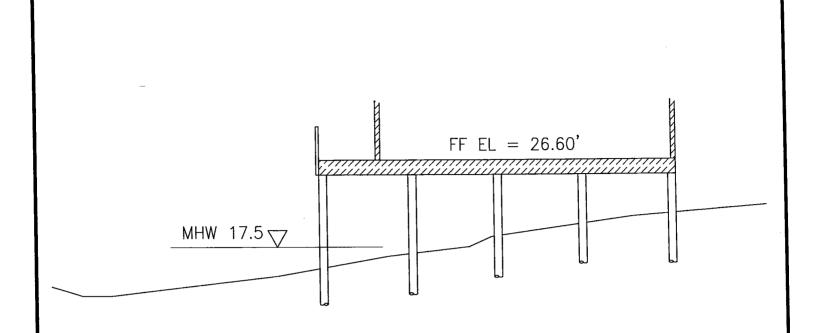
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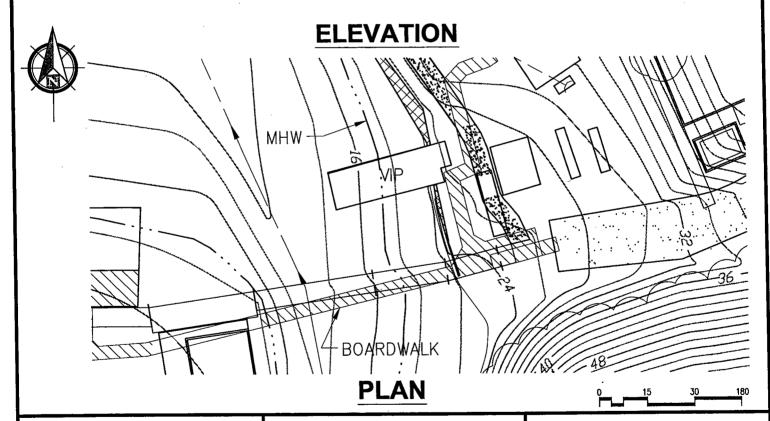
NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

1-1988-0668, Kasitsna Bay 6

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 7 of 12 **DATE**: NOV. 2003





DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

EXISTING VIP CABIN PLAN & ELEVATION

SCALE AS SHOWN

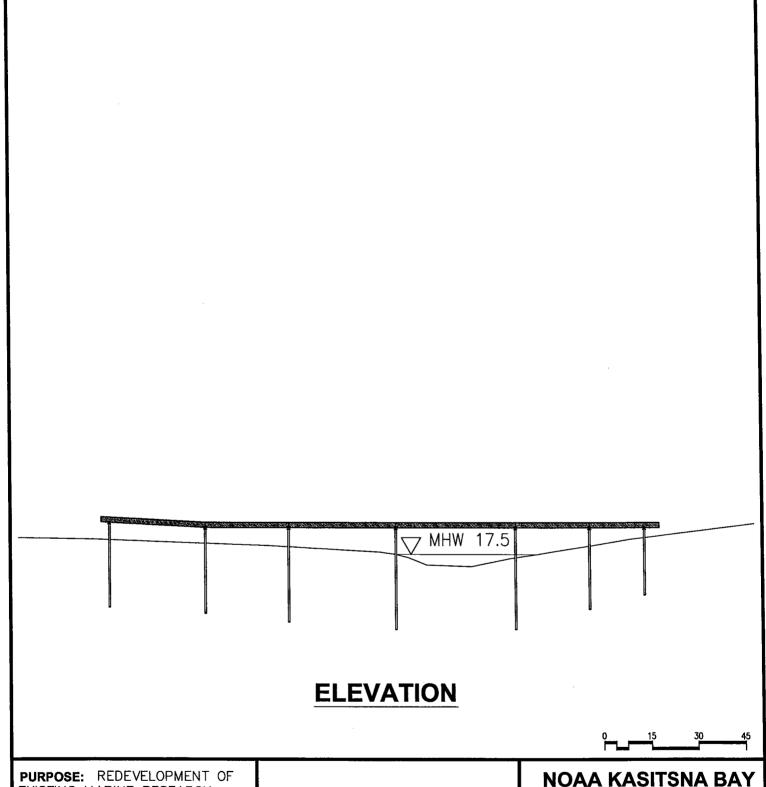
NOS-NOAA 601 E 12th, FEDERAL BUILDING RM 1749 KANSAS CITY, MO 64106-2877

NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

1-1988-0668, Kasitsna Bay 6

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 8 of 12 **DATE**: NOV. 2003



DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

NEW BOARDWALK ELEVATION

SCALE AS SHOWN

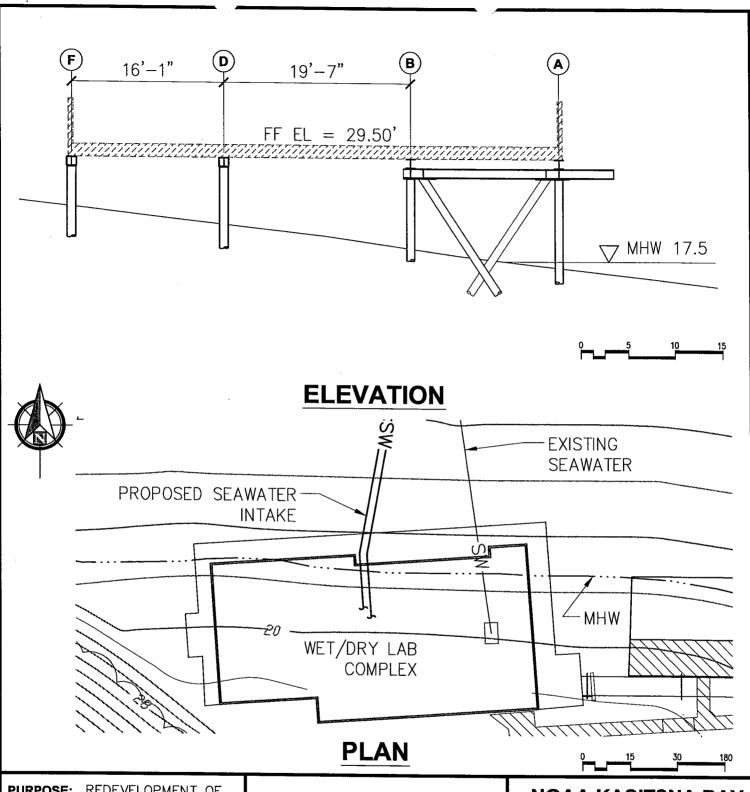
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NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

1-1988-0668, Kasitsna Bay⊕6 IN: KASITSNA BAY

AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 9 of 12 **DATE**: NOV. 2003



DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

WET/DRY LAB COMPLEX PLAN & ELEVATION

SCALE AS SHOWN

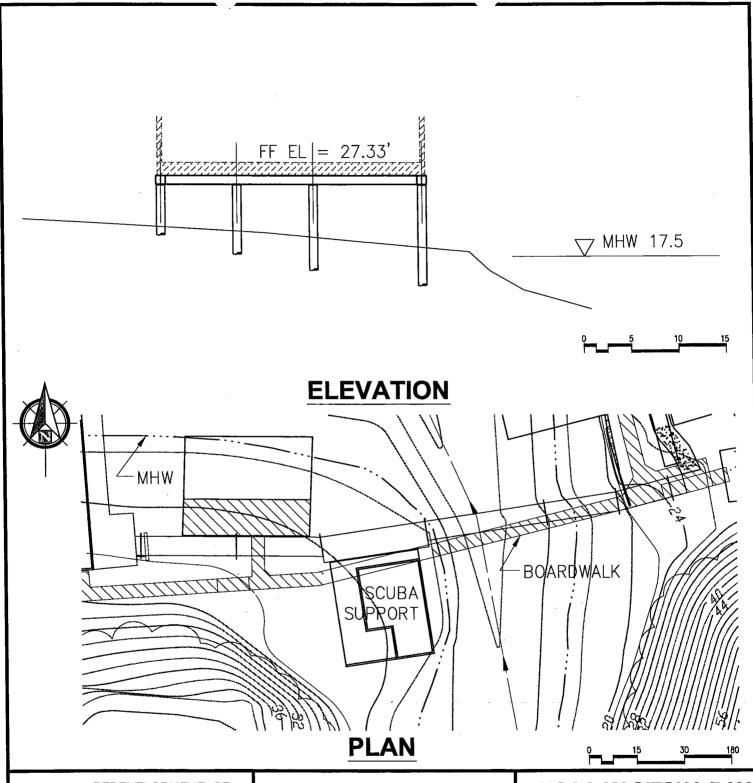
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NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

1-1988-0688, Kasitsna Bay 6

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 10 of 12 DATE: NOV. 2003



FACILITY

DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

SCUBA SUPPORT FACILITY PLAN & ELEVATION

SCALE AS SHOWN

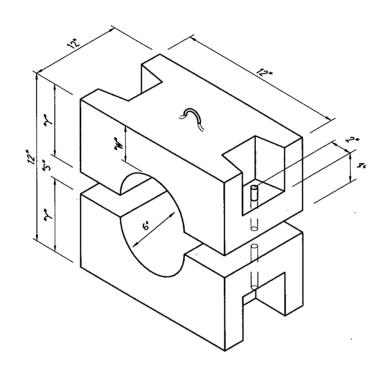
NOS-NOAA 601 E 12th, FEDERAL BUILDING RM 1749 KANSAS CITY, MO 64106-2877

NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

1-1988-0688, Kasitsna Bay 6

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 11 of 12 **DATE**: NOV. 2003



DATUM:

0.0' M.L.L.W.

ADJACENT PROPERTY OWNERS:

- 1) SELDOVIA NATIVE ASSOC
- 2) PATRICK DAIGLE

SEAWATER INTAKE CONCRETE PIPE ANCHOR

SCALE AS SHOWN

NOS-NOAA 601 E 12th, FEDERAL BUILDING RM 1749 KANSAS CITY, MO 64106-2877

NOAA KASITSNA BAY RESEARCH FACILITY REDEVELOPMENT

1-1988-0668, Kasitsna Bay 6

IN: KASITSNA BAY AT: SELDOVIA, ALASKA SEC 19, T85, R13W, S.M.

SHEET 12 of 12 **DATE:** NOV. 2003

Project Description for Kasitsna Bay Laboratory

The following description is meant to supplement the attached drawings and permit application. Please note that this description only covers the projects spoken of in the final report of the Environmental Assessment and the NEPA process, which was completed in the spring of 2003. The EA should be referenced for additional details. The existing structures have already been permitted (Summer 2002). Table 1 provides a summary of all the structures on the facility.

Table 1 Structures Summary

Building No.	Anticipated Build Year	Structure	Status	New Sq Ft ¹	In-Water /Over- Water Structure
1	2004-2005	Wet/dry Lab Complex	Replace	 ◆ 5,000 total new sq ft ◆ 5,000 sq ft over water 	Yes
2	2004-2005	Main Dry Lab	Existing, Renovate		Yes
3	2004-2005	Seawater Storage Tank	New	200 sq ft	No
4	2004-2005	SCUBA Support Facility	New	◆ 830 total new sq ft ◆ Partially over water	Yes
5	2005-2007	Laundry, Workshop, Equipment Storage	New	900 sq ft	No
6	2005-2007	Cabin	New (total of 3 including 1 ADA compliant)	◆ 900 sq ft each ◆ ADA has approx. 90 sq ft over water	Yes for the ADA compliant cabin, others no
7		VIP Cabin	Existing		Yes
8	2005-2007	Picnic Pavilion/ Recreation	New	500 sq ft	No
9	2005-2007	Classroom/ Office Building	New	4,000 sq ft	No
10	2004-2005	Dormitory	New	5,000 sq ft	No
11		Pump House	Existing		No

¹ "Over water" is defined as below the Mean High Water line, which equals 17.5 ft MLLW.

Building No.	Anticipated Build Year	Structure	Status	New Sq Ft ¹	In-Water /Over- Water Structure
12		Water Storage Tank	Existing		No
13		Caretaker's Main House	Existing		No
14		Bunkhouse	Existing		No
15	Expand in 2004-2005	Waste Treatment Package Plants & Infiltrator Field	Partially Existing		No
16	2005-2007	Boat Storage/ Maintenance Facility	New	2,000 sq ft	No
17	2005-2007	Boat Storage	Relocate Existing		No
18	2004-2005	Generator Enclosure	Existing		No
19	Adding fuel tank for Central Heating System in 2004-2005	Fuel Tank	Partially Existing	·	No
20		Dumpster Location	Relocate		No
	2004-2005	Floating Dock with Stationary Trestle	New	See description below	Yes
	2004-2005	Seawater Intake	Relocating		Yes
21	2004-2005	Boardwalk	Replace and realign		Yes
	2004-2005 if needed	Central Heating Plant located south of Building No. 8.	New, only if the Dormitory (No. 10) is not built in 2004- 2005.		No

The Kasitsna Bay Laboratory project has three main parts: in-water structures, a change in the seawater intake, and land structures.

Over-Water Structures

There are six structures at the facility that are fully or partially over water. The existing structure, <u>VIP Cabin</u>, Building No. 7, will not change from its current configuration and location.

This was the former delivery dock. The Wet/Dry Laboratory, Building No. 1, is a full replacement for the existing building. The new building will be a total of 5,000 sq ft, which is 3,170 sq ft larger than the building it replaces. The over water portion will be 5,000 sq ft, an increase of 3,170 sq ft. The existing concrete piers and wood piles will be removed and the new structure has a total of 41, 10'\overline{\Omega} diameter steel piles. The seawater discharge point under this building will be replaced with an erosion prevention configuration. The Main Dry Laboratory, Building No. 2, which is over water, will be renovated. The over water portion will not be increased.

Building No. 4, <u>SCUBA</u> support facility, is a new structure that will be partially over water meaning a portion of the building will be below MHW. The purpose of the building is to provide cleaning and storage space for the SCUBA equipment. The wash down area will be on the deck of the building. The wash water will be untreated freshwater from the creek.

NOAA proposes to build a new <u>floating dock with stationary trestle</u>. Erected in 1959, the original timber dock was demolished in 1987 on account of dry rot. Since the dock removal, boats have been moored at Jakolof Bay Dock. However, as a result of an increase in boat traffic and the desire to transfer large equipment to the laboratory, continued use of Jakolof Dock is no longer an option. The dock is designed to provide sufficient free board at all tides for the vessels it was designed to support. A stationary dock was not considered due to the large tidal range in this area. The trestle is pile supported and stationary while the main float and gangway float rest on the water surface. The gangway connects the trestle and dock and the incline of the gangway is a function of the difference in elevation between the trestle and the dock.

A footpath connects the 8' X 265' trestle to the land facilities. The trestle consists of six steel piles. One of the steel piles at the dock end of the trestle also functions as the wet well for the seawater system. This is an 8 ft diameter wet well that houses the saltwater intake system pump house. Also at the dockside, the trestle is attached to a 6' X 80' gangway which connects to a 6.5' X 15' gangway float. The dock is a 10' X 80' main float connected to this gangway float. Six piles secure the dock in position.

The <u>Boardwalk</u>, Structure No. 21, which spans the unnamed creek, will be replaced and slightly realigned. The new structure will be ADA accessible. The proposed boardwalk is 181 ft long with six bents. The majority of the boardwalk is 6 ft 7 in wide. One section is 8 ft 7 in wide in order to accommodate the bend in the walkway. There are two piles at each bent for a total of 12 steel piles. All piles will be driven. The east end of the boardwalk has an abutment into the uplands. The existing wood boardwalk and wood piles will be completely removed and all waste disposed off site.

Activities and procedures over water

The anticipated dock fueling will be private fueling, consisting of a person carrying gas containers down to the vessel located at the dock. There is no anticipated vessel waste, sanitation or otherwise. All wastes will be brought back to the facility for disposal through their system.

Seawater System

The seawater system is a once-through supply and discharge system. It essentially operates continuously and includes various sensing and controlling features (such as time clock actuation and level control on/off activation) of the standby pump (one of two main pumps) at the Wet Well; flow meters; water quality measuring devices; and low level alarms in the storage reservoirs, and in the wet well. NOAA obtained a seawater disposal permit (#0123DB004) from Alaska Department of Environmental Conservation in 2002 in the amount of 374,400 gallons per day. This amount was sized for the proposed system and does not need to be increased or revisited at this time. The following is a brief description of the salient operating features of the system:

- 1) Seawater intake structures are positioned at the seaward end of each intake line and are designed to draw seawater from a depth of approximately 35 to 40 feet below hydrographic zero or mean low seawater level. The intake structures are designed as reinforced concrete boxes that will be placed on the sea bottom. The invert of the intake ports are located approximately 3 feet above the sea bottom and they are designed with removable stainless steel screens. Spare screens will be provided so that the fouled screens can be replaced immediately with clean screens and the fouled screens can then be cleaned on shore for use during the next cleaning. Duplicate 6 inch diameter intake (siphon) pipelines convey seawater from the intake structures to a wet well (cassion) located at the end of the new Trestle Access Structure.
- 2) The wet well is constructed as a deep well/sump that extends below extreme lower low water level so that it is possible to pump seawater from the well at any tide level. The intake pipelines operate essentially as siphons.
- 3) Two vertical turbine submersible pumps draw seawater from the wet well. Each pump provides the design flow capacity of 200 GPM and the other pump is redundant for standby (reliability).
- 4) The submersible pumps discharge the seawater into duplicate 4-inch diameter seawater supply lines that discharge into two seawater storage (head) tanks on land.
- 5). The seawater storage (head) tanks are located above the laboratory building and they supply seawater to the laboratory building facilities through duplicate gravity distribution supply lines.
- 6). The building piping distribution system comprises duplicate sea water supply piping. The seawater flows by gravity from the storage head tanks. The seawater is supplied to the various aquarium holding and research tanks through these gravity overhead supply lines.
- 8). The waste seawater is collected in a number of floor drains and floor trenches. The seawater waste is discharged back to the sea. No chemicals are discharged to the sea. Any chemicals used in the laboratory are collected and disposed of off-site.
- 9). Magnetic type flow meters are installed in the 4-inch diameter supply lines to measure the actual flow rates.

- 10). A water quality monitoring station with sensors and readers is provided to measure salinity, pH, temperature, dissolved oxygen and turbidity. A single station will be installed with duplicate sample lines one connected to each of the two distribution supply lines. When the piping systems are changed over during the purging and cleaning cycles the sample line will change over to the operating line.
- 11). The sea water system operates continuously. There are a number of control and alarm devices in the system to ensure reliability.
- 12). There are duplicate lines provided on all of the seawater supply and distribution piping systems for cleaning and maintenance purposes.
- 13). There is an existing standby emergency generator to maintain the operation of the seawater supply pumps in the event of a power failure.

On-Land Structures

The land structures consist of housing, support/upkeep structures, and research facilities. There are 5 existing structures, 9 new structures, and 1 existing structure that will be relocated. Note that in the Environmental Assessment the laundry facilities were housed in Building No. 5. Laundry facilities are now provided in the each of the sleeping quarters buildings.

Existing structures:

Housing

- Caretaker's Main House/ Caretaker's Storage Shed (Building No. 13)
 - The only change proposed is to connect the Caretaker's house with the new infrastructure.
- Bunkhouse (Building No. 14) built in 2003 and already tied into the new drinking water and wastewater systems.

Support/Upkeep

- Pump House and Treatment Building (Building No. 11)
- Freshwater Storage Tank (Structure No. 12)
- Generator Enclosure (Building No. 18)

Existing structures to be removed and replaced with new structures:

Housing

- Trailer Dormitory (replace with Dormitory Building No. 10)
 - The Dormitory will be approximately 4,000 sq ft.
 - O If the Dormitory cannot be built during the 2004-2005 season, a stand alone central heating plant will be built between the old generator building and the trailer dormitory. This is on the south side of the Picnic Pavilion (Building No. 8) shown on the attached drawings.

Support/Upkeep

- Lower Shop (replace with Picnic Pavilion/Recreation Building No. 8)
- Boat Storage/ Maintenance Facility (Building No. 16)
 - Replaces the existing wood floor upper ship and boat storage structures.

Research Facilities

- Green House (replace with Classroom/Office Building No. 9)
 - o The classroom/office building will be a two-story, 4,000 sq ft structure.
 - The Green House and old workshop will be renovated if the Classroom is not built.

Existing structures to be relocated:

Support/Upkeep

- Boat Storage/Maintenance Facility (Building No. 17)
 - This building will be connected to the Upper Shop building and an additional boat storage area added.

New structures:

Housing

Residential Cabins (Total of 3 including one that is ADA compliant; Building No. 6)

Research Facilities

- Seawater Storage Tank (Structure No. 3)
- Research Workshop/Equipment Storage Building (Building No. 5)

Infrastructure

The facility started upgrading the infrastructure during the 2003 construction season. This included installing a new under gravel drinking water system with treatment and storage, and a new wastewater treatment package plant with infiltration field. These systems were installed under Nationwide No. 12 and No. 18 permits granted by the US Army Corps of Engineers in their letter dated July 17, 2002. The bunkhouse also had a new road for access. The seawater disposal permit obtained in 2002 (ADEC #0123DB004), is for 374,400 gallons per day and is sized for the final build out.

The freshwater needs of the facility will expand to 6,000 gallons/day at final build-out. NOAA currently holds a water right to 3,000 gallons/day of water from the unnamed creek. Please note that the water system does not include a dam and is purely an under gravel system. Approximately 4,100 gallons/day are needed for potable uses and the remainder will be used at the wash down for the SCUBA. The new under gravel water pump will replace the existing one to service the SCUBA facility as that water needs to be untreated. The new water pump and treatment system installed in 2003 is sufficient to handle the final build-out needs of the facility.

The wastewater system (Structure 15) includes a recirculating septic tank system approved by Alaska Department of Environmental Conservation. The installation of this system began during

the 2003 construction season. The full size for the infiltration field was evaluated under a USACE nationwide permit and installed in 2003. Two of the four pods (septic tanks) were installed in 2003. The remaining two pods will be installed in 2004/2005.

The primary mode of transport around the facility is by foot, ATV, or snow machine. There is some vehicular access to several buildings. This is primarily limited to the upper portions of the facility. This facility is ADA compliant whenever possible.

Electricity and telephone will be added as needed. Wires will be placed underground when possible. Existing corridors will be used when possible. A 100-kW generator will replace the existing 30-kW generator for emergency purposes. A microwave link to Homer will likely be installed for telephone and internet service.

Construction Methodologies

The buildings listed as over water structures have pilings driven below the mean high tide water line. Pile driving will be accomplished in a manner to minimize the effect on marine and mammal life. Eiders and salmon are the species most likely to be affected by pile driving activities. NOAA proposes to conduct pile driving activities from April 1st through November 14th.

Most building activities on the uplands will follow normal building practices. However, bedrock and hard rock are commonly found at the surface and require removal to build foundations and access. This will be accomplished through blasting. No underwater blasting is required but blasting will need to occur at 2.5 feet below the mean high water line. NOAA proposes to limit blasting to low tides and from April 1st through November 14th.

Delivery and storage of equipment and materials will be done from the uplands and by barge. Erosion control mats will be installed on the beach in a designated barge unloading area.

Known geophysical hazards for this area include faulting and periodic earthquakes. Portions of a major, inactive fault, Borders Fault, extend beneath Kachemak Bay in the vicinity of Kasitsna Bay with surface deformation mapped within 1 mile of the NOAA property. This property is within seismic zone 4, the highest earthquake hazard category. The property also contains steep slopes with several levels of relatively flatter terrain. Structures are limited to the flatter terrain.

Timeline for Completion of Major Activities

The Kasitsna Bay Laboratory development project will take several years to construct and is expected to be completed by December 2007. Several activities will require timing with appropriate windows to minimize the effect to wildlife.

Table 1 includes the estimated construction date for the various structures. These dates are dependant on the availability of funding and the priority of the structure. Items that will be constructed during 2003/2004 include the dock/trestle, relocated seawater intake, replacement of

STATE OF ALASKA

OFFICE OF THE GOVERNOR

OFFICE OF PROJECT MANAGEMENT AND PERMITTING ALASKA DEPARTMENT OF NATURAL RESOURCES

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NOTICE OF APPLICATION FOR CERTIFICATION OF CONSISTENCY WITH THE ALASKA COASTAL MANAGEMENT PROGRAM

Notice is hereby given that a request is being filed with the Division of Governmental Coordination for a consistency determination, as provided in Section 307(c)(3) of the Coastal Zone Management Act of 1972, as amended [16 U.S.C. 1456(c)(3)], that the project described in the Corps of Engineers Public Notice No. 1-1988-0668 Kasitsma Bay 6, will comply with the Alaska Coastal Management Program and that the project will be conducted in a manner consistent with that program.

This project is being reviewed for consistency with the Alaska Coastal Management Program. Written comments about the consistency of the project with the applicable ACMP statewide standards and district policies must be submitted to the Alaska Division of Governmental Coordination. For information about this consistency review, contact DGC at (907) 269-7470 or (907) 465-3562, or visit the DGC web site at http://www.gov.state.ak.us/gdc/Projects/projects.html.

Attachment 2